	Application No.	Applicant(s)
	10/629,294	OKUI, YOSHIAKI
Notice of Allowability	Examiner	Art Unit
	Cassandra Cox	2816
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS (herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGOT (See 37 CFR 1.313)	OR REMAINS) CLOSED in to or other appropriate commur GHTS. This application is su	his application. If not included ication will be mailed in due course. THIS
1. X This communication is responsive to amendment filed on 0	<u>9/29/04</u> .	
2. 🔀 The allowed claim(s) is/are <u>1-12</u> .		
3. \boxtimes The drawings filed on <u>29 July 2003</u> are accepted by the Example 1.	aminer.	
 4. Acknowledgment is made of a claim for foreign priority unda) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	been received. been received in Application	No
Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONMI THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	ENT of this application.	
 A SUBSTITUTE OATH OR DECLARATION must be submi- INFORMAL PATENT APPLICATION (PTO-152) which give 		
 CORRECTED DRAWINGS (as "replacement sheets") must (a) ☐ including changes required by the Notice of Draftsperso 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the deposed strucked Examiner's comment regarding REQUIREMENT FROM the deposed strucked examiner's comment regarding required by the Notice of Draftsperson of the Notice of Draftsperson of the Notice of Draftsperson of D	on's Patent Drawing Review Amendment / Comment or i 84(c)) should be written on the he header according to 37 CFR	n the Office action of drawings in the front (not the back) of 1.121(d). RIAL must be submitted. Note the
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Sur Paper No./M 8), 7. ☐ Examiner's A	
		MOTHY P. CALLAHAN SUPERVISORY PATENT EXAMINER

U.S. Patent and Trademark Office PTOL-37 (Rev. 1-04) TECHNOLOGY CENTER 2800

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DETAILED ACTION

Allowable Subject Matter

- 1. Claims 1-12 are allowed.
- 2. The following is an examiner's statement of reasons for allowance: Claims 1-3 are allowed because the closest prior art of record fails to disclose a circuit as shown in Figure 1 wherein the circuit comprises the combination of a first sine-wave signal generation circuit (2), a first phase difference detection circuit (1), a second sine-wave signal generation circuit (9), a frequency difference detection circuit (4), a second phase difference detection circuit (3), an adder circuit (5), and a frequency variation rate limiter circuit (8) in combination with the rest of the limitations of the base claims and any intervening claims. Claims 4-7 are allowed because the closest prior art of record fails to disclose a circuit as shown in Figure 7 wherein the circuit comprises the combination of a first sine-wave and cosine-wave signal generation circuit (2'), a first phase difference detection circuit (1"), a second sine-wave and cosine-wave signal generation circuit (9'), a frequency difference detection circuit (4'), a second phase difference detection circuit (3'), an adder circuit (5), and a frequency variation rate limiter circuit (8) in combination with the rest of the limitations of the base claims and any intervening claims. Claims 8-11 are allowed because the closest prior art of record fails to disclose a circuit as shown in Figure 6 wherein the circuit comprises the combination of a threeto-two phase transformation circuit (15), a first sine-wave and cosine-wave signal generation circuit (2'), a first phase difference detection circuit (1'), a second sine-wave and cosine-wave signal generation circuit (9'), a frequency difference detection circuit



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(4'), a second phase difference detection circuit (3'), an adder circuit (5), and a frequency variation rate limiter circuit (8) in combination with the rest of the limitations of the base claims and any intervening claims. Claim 12 is allowed because the closest prior art of record fails to disclose a circuit as shown in Figure 5 wherein the circuit comprises the combination of a sine-wave and cosine-wave signal generation circuit (2') and an input frequency detection circuit (14a) in combination with the rest of the limitations of the base claims and any intervening claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cassandra Cox whose telephone number is 571-272-1741. The examiner can normally be reached on Monday-Thursday from 7:00 AM to 4:30 PM and on alternate Fridays from 7:00 AM to 3:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Callahan can be reached on 571-272-1740. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

CC

December 14, 2004